Date: Thu, 1 Apr 93 20:34:34 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #408
To: Info-Hams

Info-Hams Digest   Thu, 1 Apr 93   Volume 93 : Issue 408

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

Date: 1 Apr 93 15:17:37 CST
From: timbuk.cray.com!hemlock.cray.com!cherry10!dadams@uunet.uu.net
Subject: exam prep
To: info-hams@ucsd.edu

I don't really understand the term "Auxiliary station operation".
The definition seems to be "The transmission of communications
point-to-point within a system of cooperating amateur stations."
To me that just about describes all of ham radio. So what is it
really? And why may stations in auxiliary operation only communicate
with "other amateur stations within a system of cooperating amateur
stations?"

(I refer to exam questions 4AA-4.1 and 4AA-4.3 etc.)

--David C. Adams Statistician Cray Research Inc. dadams@cray.com
----
       Old Sourdoughs never die. They just ferment away.

Date: 1 Apr 93 16:10:34 CST
From: timbuk.cray.com!hemlock.cray.com!cherry10!dadams@uunet.uu.net
Subject: exam prep II
To: info-hams@ucsd.edu

Here is one question I cannot fathom:

4AA-19.4:
     "Under what circumstances, if any, may an employee of a company
     which is engaged in the distribution of equipment used in
     connection with amateur radio transmissions be a volunteer
     examiner?"

To which the correct answer is:

     "B. If the employee does not normally communicate with the
          manufacturing or distribution part of the company."

I cannot understand why! I could see some reason behind prohibiting
an equipment salesman from also being the VEC, but what does being
in touch with the manufacturing or distribution have to do with it?

--David C. Adams Statistician Cray Research Inc. dadams@cray.com
----
       Old Sourdoughs never die. They just ferment away.

Date: Fri, 2 Apr 1993 01:05:49 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!zaphod.mps.ohio-state.edu!
darwin.sura.net!jabba.ess.harris.com!mlb.semi.harris.com!news@network.UCSD.EDU
Subject: Harris power meter
To: info-hams@ucsd.edu

Greetings all..
 Back in 1986 Harris sold there rf/microwave line to a business called
Telephonics. They are located on Long Island. The Harris plant that made
that power meter was located in Westbury Long Island. The division of
Harris was called PRD electronics. I had worked with these power meters

at a time at Harris. If I remember correctly the signal needs to be modulated with a 1 Khz signal.

Ray

Date: Thu, 01 Apr 93 07:13:08 CST
From: sdd.hp.com!zaphod.mps.ohio-state.edu!news.acns.nwu.edu!nucsrl!gagme!precipice!jjw@decwrl.dec.com
Subject: mini ATV cameras
To: info-hams@ucsd.edu

jfriedl@TUBBY.MACH.CS.CMU.EDU (Jeffrey Friedl) writes:

> I'm looking for sources for small cameras, transmitters, and downconverters
> for use with ATV equipment. I have PC Electronics' catalog, which is low on
> info and high on prices.
>
> Desired applications include RC helis and Hat-Cam. (-:
> Info appreciated, thanks.
>
>   *jeff*

Check out the last (April?) issue of 73 magazine, they had a Hat-Cam in there. Available from Elktronics -NE, phone # 603-525-4001.

Date: Fri, 2 Apr 1993 01:03:17 GMT
From: news.cerf.net!proton!psi.llumc.edu!britton@network.UCSD.EDU
Subject: The damn bread thing again!
To: info-hams@ucsd.edu

The Part 97 rule about business reads:

> 97.113(a) No amateur station shall transmit any communications the
> purpose of which is to facilitate the business or commercial affairs
> of any party.

People who contend that it is a violation of this rule for a wife to ask her autopatching husband to pick up a loaf of bread on his way home, have missed the intent of the rule. The rule was intended to prevent use of the ham bands for business purposes, not to guarantee that some business somewhere won't receive some incidental benefit from the communication.

The test would be whether or not the communication, IN AND OF ITSELF, facilitates the business or commercial affairs. If the husband calls the bakery and orders a loaf of bread, then clearly the communication is commercial in nature. But the wife asking him to pick up bread, or beer, or the baby sitter on his way home, is NOT!

If the husband suggests instead that they go out for dinner (which IS legal, even though some restaurant will benefit), he can also legally ask his wife to call the restaurant and make a reservation. But if HE calls the restaurant on the autopatch, a violation has probably occurred. Note the difference: in the first case, no business activity is furthered BY THE COMMUNICATION ITSELF. In the second case, the amateur communication DIRECTLY causes the business benefit to accrue.

This has been kicked around interminably before, and by now that loaf of bread must have 250,000 miles on it. Let's all just use a little common sense with the autopatches, and drop this tedious thread. Why run around making life any more complicated than it already is? Remember too, the FCC has never prosecuted a ham for "bringing home the bread."

73 de k0wwg, Barrie :)

Date: 2 Apr 93 01:29:37 GMT
From: news-mail-gateway@ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review for 02 April
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
April 02 to April 11, 1993

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

For information regarding our Dynamic Auroral Oval Simulator and its importance in aiding to determing propagation conditions, send a request for more information to:
Oler@Rho.Uleth.CA, or COler@Solar.Stanford.Edu

Our Spring Special is now in effect for this software and

will remain active until 31 July, 1993.

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

10-DAY SOLAR/RADIO/MAGNETIC/AURORAL ACTIVITY OUTLOOK

	Solar	HF Propagation					+/-	CON	SID	PROB. Es		AU.BKSR			DX	Mag	Aurora		
	Activty	LO	MI	HI	PO	SWF	%MUF	%	ENH	LO	MI	HI	LO	MI	HI	%	K Ap	LO	MI	HI
02	LOW	VG	VG	G	G	20	+15	75	20	NA	NA	NA	00	05	10	40	3 12	NV	NV	LO
03	LOW	VG	VG	G	G	25	+15	70	20	NA	NA	NA	00	05	15	35	2 12	NV	NV	LO
04	LOW	VG	G	F	G	30	+10	70	20	NA	NA	NA	01	10	25	35	3 15	NV	NV	MO
05	LOW-MOD	VG	G	F	F	35	00	65	25	NA	NA	NA	02	25	35	30	4 20	NV	NV	MO
06	LOW-MOD	VG	G	F	F	35	00	65	30	NA	NA	NA	02	25	35	30	4 18	NV	NV	MO
07	LOW-MOD	VG	G	F	F	35	00	65	30	NA	NA	NA	02	25	35	30	3 15	NV	NV	MO
08	LOW-MOD	VG	G	F	G	35	00	65	35	NA	NA	NA	02	20	30	35	3 12	NV	NV	LO
09	LOW-MOD	VG	VG	G	G	35	+05	65	35	NA	NA	NA	02	20	25	35	2 10	NV	NV	LO
10	LOW-MOD	VG	VG	G	G	35	+10	65	35	NA	NA	NA	02	20	25	40	2 10	NV	NV	LO
11	LOW-MOD	VG	VG	G	G	35	+15	65	35	NA	NA	NA	02	20	25	40	2 10	NV	NV	LO

DEFINITIONS:

Date (day only)
Possible Magnitude of Solar Flaring (LOW=C-class, MOD=M-class, HIGH=M or X)
HF Propagation Conditions for LOw, MIddle, HIgh, and POlar areas (see below)
HF Short Wave Fade Probability (in %)
HF Maximum Usable Frequency in +/- percent above seasonal normals.
HF Prediction CONfidence Level (in %)
VHF Sudden Ionospheric ENHancement Probs (in %), weighted for low-mid lats
PROBability of "s"poradic E (Es) during the UT day for low, mid and high lats
VHF AUroral BacKScatteR Probs (in %) for LOw, MIddle and HIgh Latitudes
VHF Overall Global DX Potential (in %) - weighted for Low and Middle latitudes
Geomagnetic Activity Kp Index (peak value - see below)
GeoMAGnetic Activity Ap Index (peak value - see below)
AURORAl Activity for LOw, MIddle and HIgh Latitudes (see below)

HF Prop. Quality rated as: EG=Extremely Good, VG=Very Good, G=Good, F=Fair,
   P=Poor, VP=Very Poor, EP=Extremely Poor.
Probability of Sporadic E (Es) for the various latitudes is given in percent.
Kp Planetary Index rated: 0=V.Quiet, 1=Quiet, 2=Unstld, 3=Active, 4=V.Active,
   5=Minor Storm, 6=Major Storm, 7=Maj-Sev Storm, 8=Severe Storm, 9=V.Severe.
Ap Planetary Index rated: 0-7=Quiet, 8-16=Unstld, 17-29=Active,
   30-49=Minor Storm, 50-99=Major Storm, Severe Storm >=100.
Auroral Activity rated: NV=Not Visible, LO=Low, MO=Moderate, HI=High,
   VH=Very High.

PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (02 APR - 11 APR)

Geomagnetic Field Conditions	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Anomaly Intensity
	Given in 8-hour UT intervals										
EXTREMELY SEVERE											HIGH
VERY SEVERE STORM											HIGH
SEVERE STORM											MODERATE
MAJOR STORM											LOW - MOD.
MINOR STORM											LOW
VERY ACTIVE				*							NONE
ACTIVE		*	**	***	***	***	**	*	*		NONE
UNSETTLED	***	***	***	***	***	***	***	***	***	***	NONE
QUIET	***	***	***	***	***	***	***	***	***	***	NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***	NONE

CONFIDENCE LEVEL: 70%

NOTES:

Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

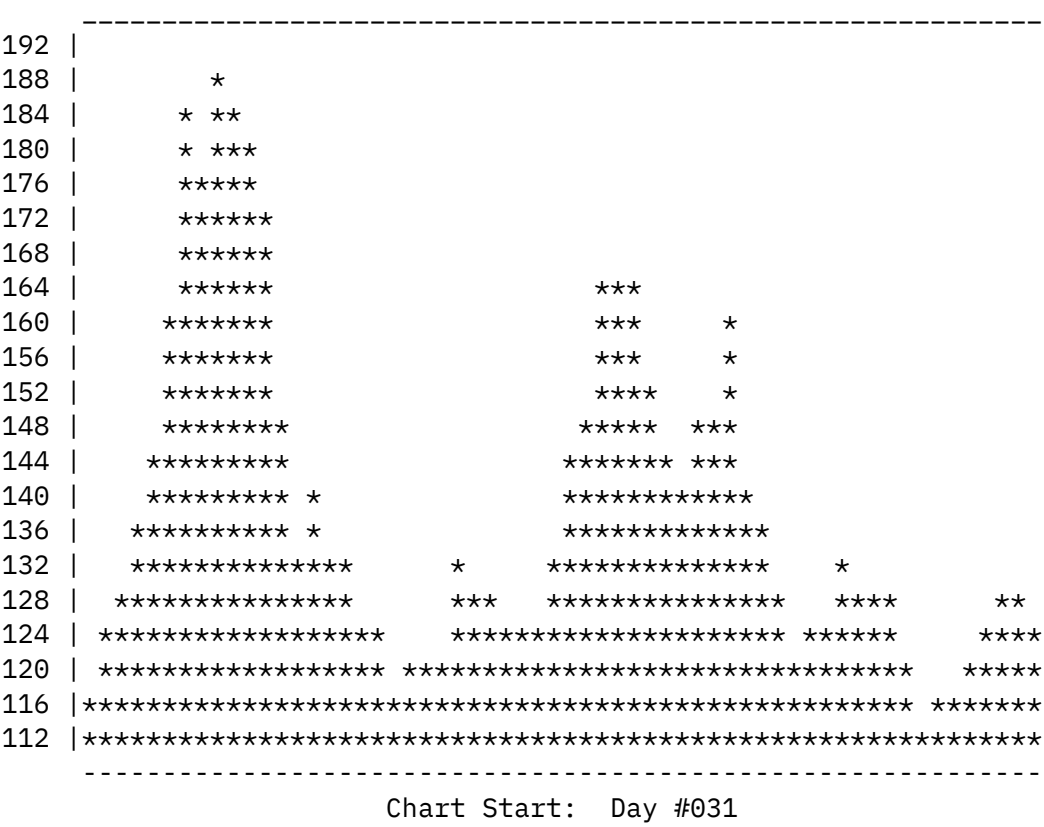
60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY

```
 78 |                                    J                     |
 74 |                                    J                     |
 70 |                                    J                     |
 66 |                                    J                     |
 62 |                                    J                     |
 58 |                                    J                     |
 55 |                                    J                     |
 51 |J                                   J     J               |
 47 |J                                   J     J        J      |
 43 |J                                   J     J        J      |
 39 |J                                   J     J        J      |
 35 |J               M                   J     J        J      |
 31 |J       M       M                   J M   J        J      |
 27 |J       M       M    M              J M   JA       J      |
 23 |JA      M       M  A M     A  A     J M A JA       J      |
 20 |JA      M       M  A M     A AAA    J MAA JA    AA J      |
 16 |JA     AMA      M  AAM     AAAAA   AJ MAAAJAAA AAA JA   AA |
```

```
     12 |JAU    AMAUU     MU AAM     AAAAA  UAJ MAAAJAAA AAA JA  UAA |
      8 |JAUUUU AMAUUUU  UMU AAMU    AAAAA UUAJUMAAAJAAAUAAAUJAUUUAAU|
      4 |JAUUUUQAMAUUUUQQUMUUAAMUQUQQAAAAAQUUAJUMAAAJAAAUAAAUJAUUUAAU|
         ------------------------------------------------------------
                         Chart Start Date:  Day #031
```

NOTES:
This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.
Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX



GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX

Chart Start: Day #031

NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS

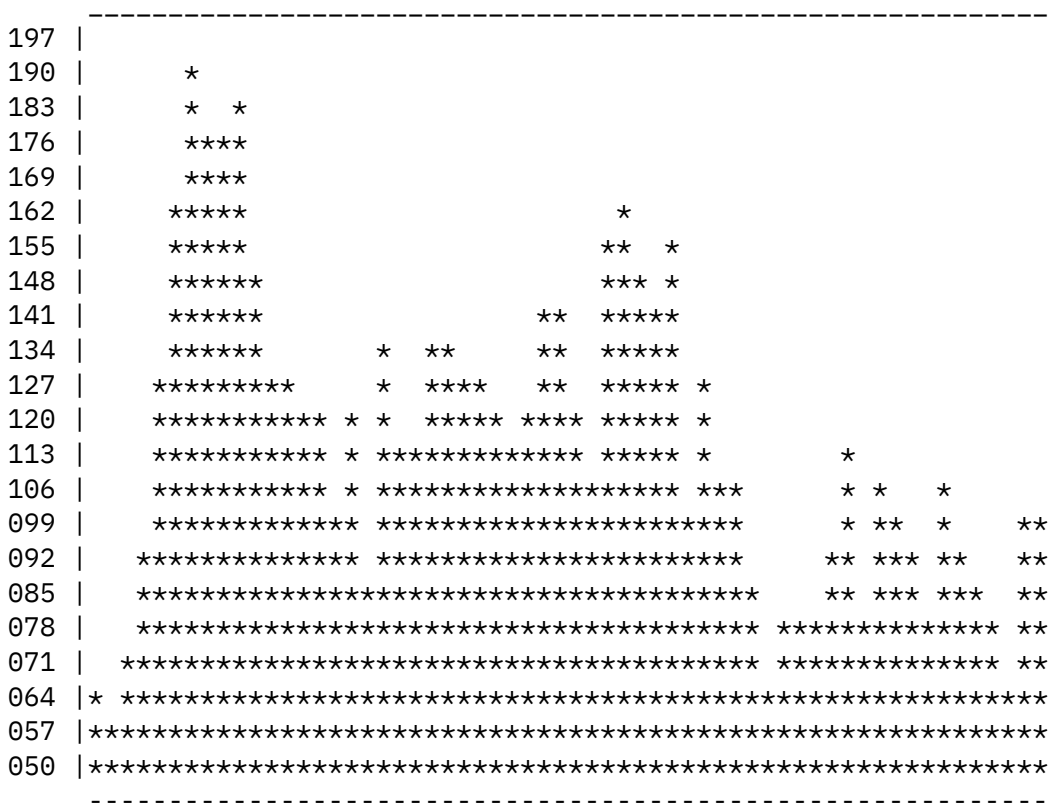


Chart Start: Day #031

NOTES:
The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

HF RADIO SIGNAL PROPAGATION PREDICTIONS (02 APR - 11 APR)

High Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD	*	*					*	*	*	*
	FAIR	* *	* *	***	**	**	***	* *	* *	* *	* *
-------	POOR				*	*					
70%	VERY POOR										
	EXTREMELY POOR										
	PROPAGATION QUALITY	Given in 8 Local-Hour Intervals									

Middle Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD	*	*						*	*	*
	GOOD	* *	* *	***	***	***	***	***	* *	* *	* *
	FAIR										
-------	POOR										
75%	VERY POOR										
	EXTREMELY POOR										
	PROPAGATION QUALITY	Given in 8 Local-Hour Intervals									

Low Latitude Paths

CONFIDENCE LEVEL		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD	**	**	*	*	*	*	*	*	*	*
	GOOD	*	*	* *	* *	* *	* *	* *	* *	* *	* *
	FAIR										
-------	POOR										
75%	VERY POOR										
	EXTREMELY POOR										
	PROPAGATION	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun

```
           |    QUALITY     |    Given in 8 Local-Hour Intervals    |
            ------------------------------------------------------
```

NOTES:

NORTHERN HEMISPHERE	SOUTHERN HEMISPHERE
High latitudes >= 55 deg. N.	High latitudes >= 55 deg. S.
Middle latitudes >= 40 < 55 deg. N.	Middle latitudes >= 30 < 55 deg. S.
Low latitudes < 40 deg. N.	Low latitudes < 30 deg. S.

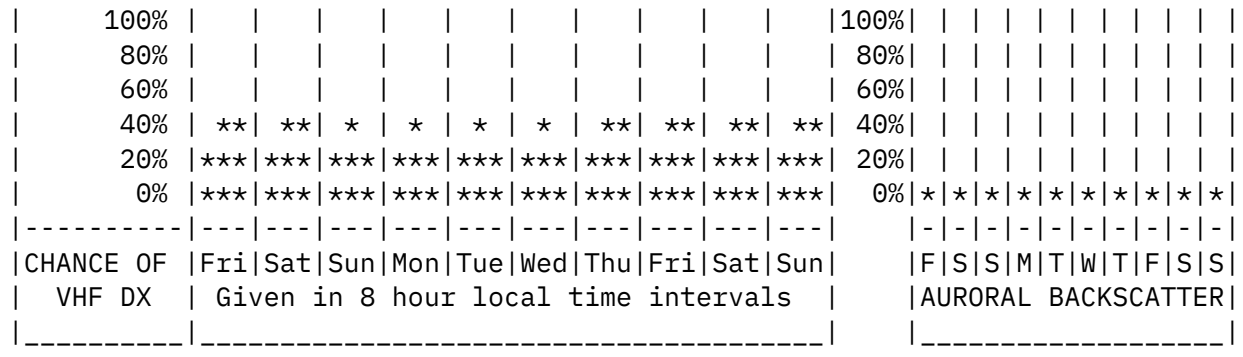
POTENTIAL VHF DX PROPAGATION PREDICTIONS (02 APR - 11 APR)
INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

HIGH LATITUDES

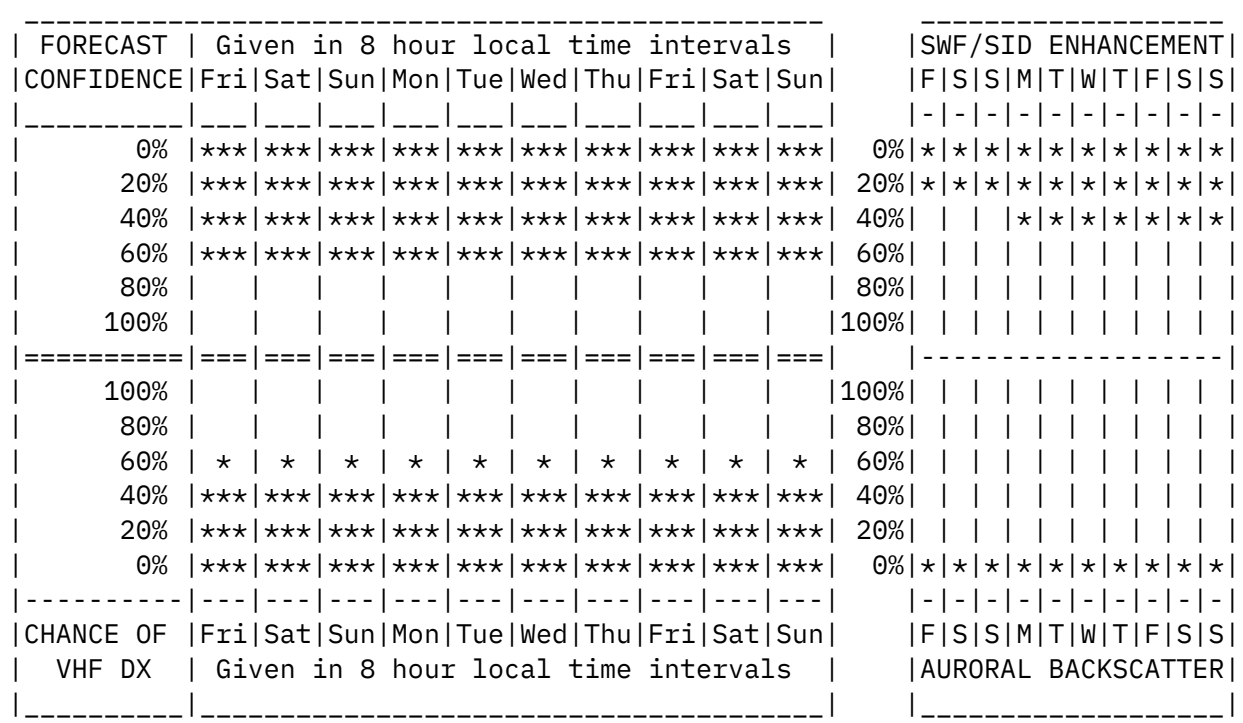
FORECAST CONFIDENCE	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%										
60%	***	***	**	*	**	***	***	***	***	***	60%										
80%											80%										
100%											100%										
100%											100%										
80%											80%										
60%											60%										
40%	*	*	**	*	*	*	*	*	*	*	40%			*							
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
CHANCE OF VHF DX	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
	Given in 8 hour local time intervals											AURORAL BACKSCATTER									

MIDDLE LATITUDES

FORECAST CONFIDENCE	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
40%	***	***	***	***	***	***	***	***	***	***	40%			*	*	*	*	*	*	*	*
60%	***	***	***	***	***	***	***	***	***	***	60%										
80%											80%										
100%											100%										
100%											100%										
80%											80%										
60%											60%										
40%											40%										
20%	***	***	***	***	***	***	***	***	***	***	20%	*	*	*	*	*	*	*	*	*	*
0%	***	***	***	***	***	***	***	***	***	***	0%	*	*	*	*	*	*	*	*	*	*



LOW LATITUDES

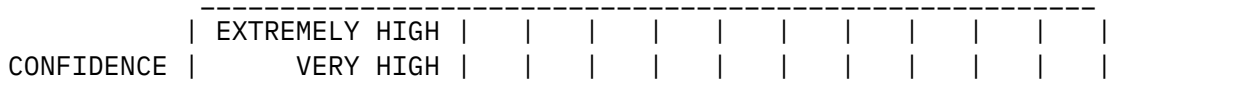


NOTES:

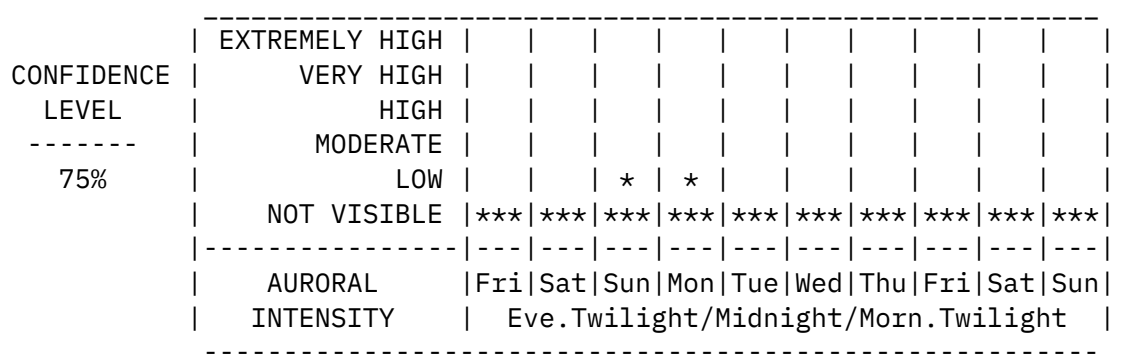
These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

AURORAL ACTIVITY PREDICTIONS (02 APR - 11 APR)

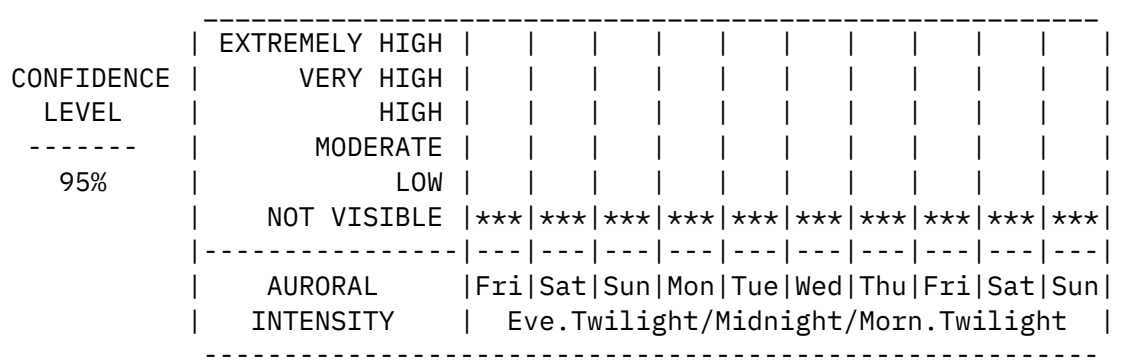
High Latitude Locations



Middle Latitude Locations



Low Latitude Locations



NOTE:
A Dynamic Auroral Oval Simulation and Prediction Software Package is available to help make predictions and show the locations where auroral activity should be visible from the ground. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

Date: Thu, 1 Apr 1993 19:27:12 GMT
From: ftpbox!mothost!lmpsbbs!NewsWatcher!user@uunet.uu.net
Subject: Where can I get old radio parts?
To: info-hams@ucsd.edu

I have an old (circa 1920) Philco "Lowboy" radio I'm trying to restore and
I need help trying to find parts for it. If anyone has any suggestions of
where I can find REALLY old tubes and capacitors I'd appreciate it!
Thanks!

| Mark Salzwedel (marksa@ecs.comm.mot.com) |

Date: 1 Apr 93 16:52:59 GMT
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net
Subject: Yeasu 5200 and mic connections
To: info-hams@ucsd.edu

dj1@vax1.mankato.msus.edu writes:

> Hello,
>   I was looking at the accessories that are available for the Yeasu
> 5200 radio and saw the wireless mic option. I know that it's performance
> is not worthwhile but having all of the functions remotly accessible-
> like change frequency! is most intriging. How is this done? Is it all
> through the mic jack? or is there a board also installed inside? I don't
> know if I would like all of the ocntrols on the mic but adding frequency
> change and the band switch to my present mic would make the radio a lot
> nicer without spending a lot of money. (I spent it all on those darn
> college books! :-)). Thanks for the info.

One of the pins on the mic jack is actually a data line. It's used for
two things, remote and cloning. Now if only we knew how it worked so we
could make either A) A better wireless remote since Yaesu's bites
bigtime or B) A better microphone with the controls on it! That would be
MOST convenient!

Tony

(I had an MW-1 on my FT-5100 for about 3 days before I sent it back)

-- Anthony S. Pelliccio, kd1nr   // A man who feels sees life as //
-- system @ garlic.sbs.com   // a tragedy, a man who thinks //
-----------------------------------// sees life as a comedy. (This //
-- Flame Retardent Sysadmin   // was in my fortune cookie!)   //

-- This is a calm .sig! --

End of Info-Hams Digest V93 #408
****